

20030130.qrp v02_n816.qrl.20030130

Date: Thu, 30 Jan 2003 19:03:11 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2816

QRP-L Digest 2816

Topics covered in this issue include:

- 1) [145433] RE: MV-1662 varactor diode characteristics
by Mark Schoonover <schoon@amgt.com>
- 2) [145434] Digital pots for audio filters?
by "N4LGH" <n4lgh@waveguide.us>
- 3) [145435] RE: MV-1662 varactor diode characteristics
by Nick Kennedy <nkennedy@tcainet.net>
- 4) [145436] Re: LAX Area QRPers (Commerce, CA)
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 5) [145437] Better than water soluble flux or Kester Solder or Radio Shack
solders
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 6) [145438] FS: Ten-Tec model 937 power supply
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 7) [145439] FOX: AC7A Final Log 1-23-03
by "Thomas Kuehl" <ac7a@earthlink.net>
- 8) [145440] Re: Got the PalmVx going, How About Logging Software?
by "Rod N0RC" <rod@n0rc.us>
- 9) [145441] FOX: W0UFO
by "Merton Nellis" <mertnellis@msn.com>
- 10) [145442] Re: Power Output Confusion
by "Dennis Payton" <dpayton@fwi.com>
- 11) [145443] Announcement - 2003 FIDM, Dayton, OH May 15-18, 2003
by "Tom Dooley" <tdooley@attbi.com>
- 12) [145444] Reminder! FIDM 2003 - Call for Presenters
by "Tom Dooley" <tdooley@attbi.com>
- 13) [145445] UPDATED: the "Rock-Mite" files
by "Rod N0RC" <rod@n0rc.us>
- 14) [145446] Sidekick Receiver Comes Alive (long)
by "Don Foster" <k5kw@geotec.net>
- 15) [145447] Lots of equipment for sale
by Paul Womble <pwomble1@tampabay.rr.com>
- 16) [145448] Re: Better than water soluble flux or Kester Solder or Radio Shack
solders
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 17) [145449] Dayton Hamvention Rooms
by Hank Kohl K8DD <k8dd@arrl.net>
- 18) [145450] Re: High Speed CW [long]

by "James R. Duffey" <JamesDuffey@comcast.net>

19) [145451] re:Rockmite QSO
by Tim Pettibone <k5oi@cox.net>

20) [145452] WWV History
by "Bob Tellefsen" <n6wg@earthlink.net>

21) [145453] Re: Better than water soluble flux or Kester Solder or Radio Shack
solders
by "Joe Martin" <km5cw@arrl.net>

22) [145454] Re: MV-1662 varactor diode characteristics
by Jeff Furman <jfurman@ocs.net>

23) [145455] Re: Bluetooth module
by Jim Gelbort <jamesgelbort@worldnet.att.net>

24) [145456] Re: MV-1662 varactor diode characteristics
by Ingo Meyer DK3RED <dk3red@gmx.net>

25) [145457] Funky - A key using pressure sensors
by Ingo Meyer DK3RED <dk3red@gmx.net>

26) [145458] February Spartan Sprint Announcement
by "John Huffman" <hjohnc@core.com>

27) [145459] troubleshooting the cub
by "Kochenderfer, Mike (M.)" <mkochend@ford.com>

28) [145460] Re: SMT work
by "Mike Yetsko" <myetsko@insydesw.com>

29) [145461] Re: Better than water soluble flux or Kester Solder or Radio Shack
solders
by t.wells@blueyonder.co.uk

30) [145462] NEQRP CW Net, Thursday, 30 Jan 03, 08:30 PM EST, 3.565 MHz
by Chuck Ludinsky <cjl@mitre.org>

31) [145463] [CONTEST] N2CQ QRP Contest Calendar - Feb 2003
by "Ken Newman" <N2CQ@Dandy.Net>

32) [145464] Re: HB - tube receiver
by "Hugo W. Catta" <hugo@optonline.net>

33) [145465] Who is TI5???

by "Joe W2KJ" <w2kj@bellsouth.net>

34) [145466] Re: troubleshooting the cub
by "Joe W2KJ" <w2kj@bellsouth.net>

35) [145467] SMT discussion
by "Joe Martin" <km5cw@arrl.net>

36) [145468] Re: [CONTEST] N2CQ QRP Contest Calendar - Feb 2003
by Alex <kr1st@amsat.org>

37) [145469] RE: Digital pots for audio filters?
by KD5NWA <KD5NWA@cbayona.com>

38) [145470] RE: Digital pots for audio filters?
by KD5NWA <KD5NWA@cbayona.com>

39) [145471] Re: FOX: AC7A Final Log 1-23-03
by palmer_t <ThomasPalmer@colliergov.net>

40) [145472] Fox Conditions Bleak ; -)
by W2AGN <w2agn@w2agn.net>

41) [145473] Placing of source in EZNEC

by Alex <kr1st@amsat.org>
42) [145474] Re: Who is TI5/KI7VR???
by palmer_t <ThomasPalmer@colliergov.net>
43) [145475] Re: SMT discussion
by "Mike Yetzko" <myetzko@insydesw.com>
44) [145476] Shortest QRPp 40m CW confirmed QSO
by k1nun@netscape.net
45) [145477] Re: Fw: dxpedition
by George Fremin III - K5TR <geoiii@kkn.net>
46) [145478] rufz
by "Fuller, David J" <David.Fuller@qwest.com>
47) [145479] Re: Shortest QRPp 40m CW confirmed QSO
by Alex <kr1st@amsat.org>
48) [145480] Re: QRP Nets
by "Oleg V. Borodin" <master72@lipetsk.ru>
49) [145481] FS
by "Craig A. Ferris" <cferris@aeronix.com>
50) [145482] Re: Better than water soluble flux or Kester Solder or Radio Shack
solders
by "Brad Hernlem" <alihernlem@hotmail.com>
51) [145483] Re: Shortest QRPp 40m CW confirmed QSO
by ac7a@earthlink.net
52) [145484] QSO Parties and QRP
by Ed Lawson <k1vp@grizzly.com>
53) [145485] Re: Shortest QRPp 40m CW confirmed QSO
by "Dave Benson" <nn1g@earthlink.net>
54) [145486] Longest QRPp QSO?
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>

Date: Wed, 29 Jan 2003 16:16:19 -0800
From: Mark Schoonover <schoon@amgt.com>
To: "'johnmb@nc.rr.com'" <johnmb@nc.rr.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145433] RE: MV-1662 varactor diode characteristics
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F6580@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The 2n2-40 group has an adapter to measure these things, but you need a cap
meter to do it... I don't have the URL handy, but I'm sure a quick google
will turn it up.

HTH - 72

.mark

|> -----Original Message-----
|> From: john [mailto:johnmb@nc.rr.com]
|> Sent: Wednesday, January 29, 2003 2:57 PM
|> To: Low Power Amateur Radio Discussion
|> Subject: MV-1662 varactor diode characteristics
|>
|>
|> I installed this Varactor diode in backwards in my Sidekick, and
|> I'm wondering if I can check (as one would, a "normal" diode) it's
|> health with an ohmmeter? I note that the one spec I see
|> doesn't give much
|> in the way of diode-like spec information (I do see a VERY
|> low reverse current
|> max, which makes me worry).
|>
|> I suspect a better question might be...who stocks these in
|> retail quantities?
|>
|> The good news is that the Vfo is operational, the mixer
|> works and the audioa
|> amp makes audio, so I'm close!
|>
|> 73
|> John k5MO
|>
|>

Date: Wed, 29 Jan 2003 16:44:45 -0800
From: "N4LGH" <n4lgh@waveguide.us>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [145434] Digital pots for audio filters?
Message-ID: <GNEOLGDJDPEALHJMKLCEEJLDGAA.n4lgh@waveguide.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In the op-amp R/C audio filters, isn't the center frequency controlled by the capacitors, and the bandwidth set by the resistors?

If so, wouldn't a digital pot with good noise characteristics work well? Would these be good enough?

http://www.xicor.com/pdf_files/an144.pdf

Just curious ... seems like a neat way to make a variable bandwidth audio filter ... anyone on here done this?

Tracy N4LGH

Date: Wed, 29 Jan 2003 19:04:01 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'johnmb@nc.rr.com'" <johnmb@nc.rr.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145435] RE: MV-1662 varactor diode characteristics
Message-ID: <01C2C7C9.3029E0C0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I don't have the Sidekick schematic, but in general I'd think there's very little chance that you damaged the diode.

In typical applications, DC is applied to the diode in the reverse direction through a pretty large resistance . The large resistance is of little consequence to the varactor bias, since current is near zero, but it keeps RF from sneaking out that way.

As a result, when you forward biased the diode accidentally, the current through it was still limited to a very small value because of the factors mentioned above. So you didn't hurt the diode. Don't really think you can check it out with an ohmmeter, but go ahead and use it in your circuit--it's probably fine.

72--Nick, WA5BDU

On Wednesday, January 29, 2003 4:57 PM, john [SMTP:johnmb@nc.rr.com] wrote:
> I installed this Varactor diode in backwards in my Sidekick, and
> I'm wondering if I can check (as one would, a "normal" diode) it's
> health with an ohmmeter? I note that the one spec I see doesn't give much
> in the way of diode-like spec information (I do see a VERY low reverse
current
> max, which makes me worry).

Date: Wed, 29 Jan 2003 17:57:47 -0800
From: "Trevor Jacobs" <kg6cyn@earthlink.net>

To: <k7qo@earthlink.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [145436] Re: LAX Area QRPers (Commerce, CA)
Message-ID: <003501c2c802\$fd7fdbe0\$17e8b3d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chuck,

Don't leave without visiting Apex Electronics up near Sunland. I'd be happy to be your guide through the place ;-) Electronics that dates back to the 50's. There's even an NC-300 stashed in there! Lots of neat air variables and so forth. You have to dig though...

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: Chuck Adams, K7QO <k7qo@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Saturday, January 25, 2003 7:21 PM
Subject: LAX Area QRPers (Commerce, CA)

>
> Gang,
>
> Starting next Thursday, Jan 30th, and for a period of one week
> I will be in Commerce, CA on a trip. If you are close to Commerce
> and want to meet sometime let me know and I'll give you my cell phone
> number.
>
> I'm looking for neat stores that handle stuff we all like. I'm
especially
> interested in high output LEDs similar to Mouser part #
604-L7113VGTC/M
> that are rated at 8000 to 18000 mcd in the green. These may be the
same
> ones used in a LED flashlight that sells for \$10 at Fry's Electronics.
But I'm
> not interested in paying \$2.29 each for 100 of them for a project that
I
> have going.
>
> I'm not in need of much else at this time. Surely there is some one

in
> this group
> that knows all the "candy stores" in the area, surplus or other wise.
I'll
> start making
> a list of stuff that I may want to get while I'm there.
>
> ciao dude,
>
>
>
> Chuck Adams, K7QO
> <http://www.qsl.net/k7qo> and <http://www.earthlink.net/~k7qo>
>
> Moving to Arizona? ---- Please bring your own water.
>

Date: Wed, 29 Jan 2003 19:59:06 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <grp-1@Lehigh.EDU>
Subject: [145437] Better than water soluble flux or Kester Solder or Radio Shack
solders
Message-ID: <02fa01c2c803\$3c80db50\$4e100a0a@rohredt2000>

I have been soldering for 45 plus years. I started with Kester solder, but about 1960 discovered the local parts house had this English made "Ersin Multicore Solder". Its claim to fame was that it had improved wetting and cleaning of the join by flux, because instead of one big glob of flux in the middle of the solder wire, it had 5 tiny cores of flux distributed thru the cross section of solder. Thus, it requires less flux to get to all parts of the joint to be soldered, as you have flux coming into the process from all the entire circumference of the solder. As a result, there is less flux used and less residue (to none) left, when you do it correctly.

At work, we stock both Kester and Multicore, as solder is kind of like brands of toothpaste, personal prejudices and all that. However, the times I had to use Kester again, I have always and consistently been less satisfied with the look of the result than with Multicore, and I always go back to Multicore. I have used one small box of Kester in 45 years, and several pounds of Multicore in several of its formulations and diameters. It seldom needs post soldering cleaning.
With the Savbit formula I am using now, I never clean off flux after soldering, and Savbit keeps the iron copper bit plating from eroding.

Multicore Solders as it is now known, is made throughout the world, and USA

has a factory in Richardson, Tx with a web site under keyword "Multicore Solders".

It saves a lot of time and frustration not having to worry with water, soap, brush, alcohol, heat gun, etc. after soldering a few joints or many. I think Multicore is the best answer for hobby soldering as well as the R&D Lab needs, and I do not own any stock in the company nor know anyone that works for them, but do know at one time, they gave out free samples.

Try it as compared to whatever you have used before. The 5 flux cores idea is a great aid to good lucking solder joints!

72, Stuart K5KVH

Date: Wed, 29 Jan 2003 21:04:36 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: tentec@contesting.com, qrp-1 <qrp-1@lehigh.edu>
Subject: [145438] FS: Ten-Tec model 937 power supply
Message-ID: <Pine.LNX.4.44.0301292101310.9321-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi all- the first post netted two people who wanted it then didn't, so it's for sale (still).

Near new condition Ten-Tec model 937 power supply, black, matches Scout & Argo. 11 amps at 50% duty cycle, 7A continuous.

It's a beefy, linear supply, so it weighs about 12 lbs.

\$89 new, asking \$69 plus actual shipping from Eugene, OR.

Photo upon request.

Thanks!

--
Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Wed, 29 Jan 2003 19:20:47 -0700
From: "Thomas Kuehl" <ac7a@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [145439] FOX: AC7A Final Log 1-23-03
Message-ID: <008d01c2c806\$33743d10\$0a0110ac@texas6oef4glwm>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy Hounds,

Here is my final, corrected log for the 01-23-03 Fox Hunt. Final edits made to 0307 and 0313 contacts.

Best Regards, Thomas - AC7A (Tucson)

TIME CALL RST-S RST-R SPC NAME PWR(W)

0200 WA9TZE 559 559 WI JIM 5
0201 KG6CYN 559 599 CA TREV 5
0202 N4BP 559 559 FL BOB 5
0203 KR5C 559 559 TX GEORGE 5
0204 N4ROA 559 559 VA DAN 5

0205 K5FSE 559 559 GA JACK 5
0205 K5DW 559 559 TX DON 5
0206 NK6A 579 579 CA DON 5
0207 N0UR 559 579 MN JIM 5
0208 AC5JH 559 559 OK TOM 5

0209 W0CH 559 559 MO DAVE 5
0209 K6MMC 579 559 CA MIKE 5
0211 N3BJ 559 559 VA ALAN 5
0211 KQ5U 559 559 TX TERRY 5
0212 VE6EX 559 559 AB DAN 5

0213 K3PH 559 559 PA BOB 5
0214 VE6JAZ 559 559 AB ROB 5
0214 W5YR 579 559 TX GEORGE 5
0215 WD9F 559 559 IL WOODY 5
0216 KI0II 339 559 CO RON 1

0217 K0FRP 559 599 CO AL 5
0218 K5JHP 559 559 TX BILL 5
0218 WW7Y 559 559 UT STEVE 5
0220 K0PC 559 559 MN PAT 5
0220 KK5NA 559 559 TX JOE 5

0221 KK5LD 559 559 TX DON 5
0222 K7TQ 559 559 ID RANDY 5
0222 N0RC 559 559 CO ROD 5
0223 N9AW 559 559 WI JERRY 5
0224 AG0T 559 559 ND TODD 4

0225 K4GT 559 559 GA JIM 5
0225 K5AIC 559 559 MS HERB 5
0227 K0EVZ 559 559 ND DOC 5
0228 NK9G 579 559 WI RICK 5
0229 KR0U 559 559 CO TIM 5

0230 NM5M 559 559 TX ERIC 5
0231 WE9K 559 559 WI GLENN 5
0232 W5TB 559 559 TX DOC 5
0233 KB7WW 559 559 OR ART 5
0234 AE4Y 559 559 GA KENT 5

0235 W5USJ 599 559 TX CHUCK 5
0236 W9XU 559 559 WI LON 5
0237 N5ZE 559 559 TX LEW 5
0238 K5SR 559 559 TX DALE 5
0239 N0SG 559 559 CO JASON 5

0239 KE6RS 559 559 CA RON 5
0240 N1TP 559 559 FL TOM 5
0241 K3IU 559 559 RI KEN 5
0242 AF4LQ 559 559 KY MIKE 5
0243 N5WL 339 559 OK BART 5

0245 AA50 559 559 LA VERN 5
0245 K4BYF 559 559 FL JACK 3
0246 K50T 559 559 WI LARRY 3
0247 K2ZN 559 559 NY AL 5
0248 K3ESE 339 559 MD LLOYD 5

0249 K5PSH 559 559 TX JERRY 5
0250 KD5CMN 559 559 TX MIKE 5
0250 K40AH 559 559 GA GAREY 5
0251 N9NE 579 579 WI TODD 5
0253 NN5E 559 559 TX VERN 5

0253 KL7FDQ 599 589 MT WAYNE 5
0255 N5YFC 559 559 LA WAYNE 5
0256 KC2CK 559 559 NY DON 5
0257 K6VNX 599 579 CA ARLEN 5
0258 K2PQ 579 559 NJ FRANK 5

0259 KD5UWV 559 559 TX NORTEX 5
0300 W8SFF 559 559 MI STEVE 5
0301 W8YMO 559 559 OH HARRY 5
0302 KJ6CA 559 579 CA BOB 5
0305 VA6RF 339 539 AB EARL 5

0307 K5EOA 559 559 LA WAYNE 5
0308 W2AGN 559 559 NJ JOHN 5
0311 WU9F 559 559 WI TERRY 5
0312 K0MAX 559 559 MN MAX 5
0313 W4NJK 559 559 CA CHARLIE 5

0314 W0UFO 559 559 MN MERT 5
0315 NK0E 339 559 CO DAVE 5
0317 W2RBA 339 449 NY JOE 5
0318 NG7Z 559 559 WA PAUL 5
0320 N5JIM 559 559 TX BRUCE 5

0322 NV4V 559 559 KY PETE 5
0324 NB7F 559 559 OR LEE 5
0325 KG4LDY 339 559 VA JIM 5
0327 W3DCG 559 339 GA DARIN 5
0330 KB9YIG 559 449 IN TONY 500mW

0331 K9DC 559 559 IN DAVE 5
0332 W9HL 559 559 IL RANDY 5
0333 K8HJ 559 559 MI JOHN 5
0338 W2BXN 339 339 FL FRED 5
0340 N0WX 559 559 MN MIKE 5

0342 N1FN 559 559 CO ET 5
0343 KI0RB 559 559 CO MIKE 5
0344 K5ZTY 559 559 TX BILL 5
0345 W4YN 559 599 NC TIM 5
0349 KV2X 339 559 NY TOM 5

0350 WA7LNW 559 579 NM JACK 5
0354 KC1FB 339 559 CT JIM 500mW
0357 WA8BXN 229 559 OH MIKE 5
0400 N2WW FOX
0400 AC7A FOX

Date: Wed, 29 Jan 2003 19:24:35 -0700
From: "Rod N0RC" <rod@n0rc.us>
To: <wkhibbert@juno.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145440] Re: Got the PalmVx going, How About Logging Software?
Message-ID: <009501c2c806\$bb6cbda0\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Keith,

Here is my "URL dump" of links to Ham Radio SW for the Palm:

<http://www.palmgear.com/>

 search for:
 AmRLog 1.1
 HamPilot 2.21

<http://www.ke4iof.com/index.html>

 logging stuff mostly

<http://www.qsl.net/va3pkh/palm-ham.html#logging>

 logging, electronics, DXing, and more!!

GL

73, Rod N0RC

----- Original Message -----

From: <wkhibbert@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, January 29, 2003 12:11 PM
Subject: Got the PalmVx going, How About Logging Software?

> Now that the Palm is back with the living, how about a generic logging
> package for the Palm platform? Any suggestions?

Date: Wed, 29 Jan 2003 20:42:16 -0600
From: "Merton Nellis" <mertnellis@msn.com>
To: qrp-1@lehigh.edu
Subject: [145441] FOX: W0UFO
Message-ID: <F43p0DjpA4pbSmqZGUT00004476@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Hounds,
I will be waiting for you tomorrow nite around 7.037 Mhz and listening up.
Please spread out because the pack gets pretty noisy. You all know the
procedure now and have seen N0TK, Dan's post too, so good luck and be
patient with me please. Have FUN!
72 MERT W0UFO MNQRP

Protect your PC - get McAfee.com VirusScan Online
<http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963>

Date: Wed, 29 Jan 2003 22:09:41 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-1@Lehigh.EDU>
Subject: [145442] Re: Power Output Confusion
Message-ID: <014d01c2c80d\$08cc6c20\$eab054d1@6300us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I discovered I was using an RF probe designed to measure RMS voltage but was
using the peak voltage formula.

By the way, I frequently get discouraged by some of the nonsense I waste my
time reading on QRP-L, and sure appreciate members of the caliber of those
who responded to this query.

THANKS! Denny N9JXY

----- Original Message -----

From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-l@lehigh.edu>
Sent: Wednesday, January 29, 2003 9:38 AM
Subject: Power Output Confusion

> When I was a new ham, I built W7EL's Directional Wattmeter and have always
> used it to measure power. I also looked at the output on an oscilloscope
and
> calculated it and I thought they always agreed, so I never put much
thought
> into the hows & whys of measuring power. Suddenly, though, they've stopped
> agreeing with each other. I'm almost certain I have an oscilloscope
problem,
> but figured I could transmit into a dummy load and use an RF probe to
> measure the voltage and calculate power output. When I did that though, (
> using the formula from SSD, $V_{\text{squared}} / 2R$ [I don't understand why $2 \times R$]) my
> calculations didn't agree with either.
>
> So, last night I called a buddy who's much more experienced than me and
> asked what I'm doing wrong. He said it's impossible to calculate power
using
> an RF probe or an oscilloscope because I don't know the phase angle. I
> didn't expect the voltage & current would be out of phase, but he said
they
> frequently may be.
>
> Does anybody have a comment??
>
> Thanks, Denny N9JXY
>

Date: Wed, 29 Jan 2003 22:29:31 -0500
From: "Tom Dooley" <tdooley@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145443] Announcment - 2003 FDIM, Dayton, OH May 15-18, 2003
Message-ID: <059501c2c80f\$ce0fc5c0\$6500a8c0@tdooleyjr>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 8bit

2003 FDIM announcement de K4TJD. I will be the Chair of this year's FDIM,
which will be my second year on the job. Last year was a real learning

experience and I hope you will find that the 2003 FDIM experience will continue the tradition of a must attend affair.

Please mark your calendars and make your arrangements to attend the QRP Premier event of the year, the Four Days in May (FDIM), scheduled for May 15, 16, 17 and 18, 2003 in conjunction with the Dayton Hamvention. For a more detailed explanation of this year's event and a view of the several past FDIM events, please visit the QRP ARCI web site @ <http://www.qrparci.org/> and click on the FDIM-Dayton link. The 2003 FDIM information will be up on the web site soon. Last year, over 300 QRP enthusiasts participated in the FDIM 2002 event. Make sure that YOU are part of FDIM 2003!

Whether you come for the full four days or stop by for a FREE evening of fun, shopping, or checking out the contest entries, we would like to see you. Prizes will abound. The format will not change appreciably from prior years. Tickets for any paid function/item - Banquet (\$25), Seminar (\$15) - may be ordered from Tom Dooley, K4TJD, 4942 Dock Court, Norcross, GA 30092, USA. Please include your email address.

Another even more convenient way to pay is to use PayPal on the QRP ARCI web site @ <http://www.qrparci.org/>.

For those who are not familiar with the FDIM event, this event starts one day in advance of the three day Dayton Hamvention. This is the reason for the name, FDIM, as we add a fourth day to the Dayton event to provide a special day just for QRP seminars and get together/socials. The FDIM activities do not conflict with any of the daytime Dayton Hamvention events, while providing QRPers two additional evenings of QRP vendor displays, QRP building/design & display events, a special QRP banquet and opportunities to meet many of the our fellow QRP enthusiasts face to face. You gotta come and feel the power of QRP!

Registration: All registration information is on the QRP ARCI web site @ <http://www.qrparci.org/>. For your convenience, QRP-ARCI accepts payment through PayPal!

A brief description of the activities is as follows:

Thursday, all day - QRP Seminars - Registration is \$15

On Thursday, from 8:00 AM until 4:30 PM, seven distinguished guest speakers will be presenting great talks that you will not want to miss. Your registration fee provides entrance to the seminar, coffee, and a copy of the proceedings. The proceedings is the printed copy of the talks that you will hear so you can make notes and review the material anytime you want in the future. Additional copies of the proceedings will be available for sale for \$15.

We may have some additional activities after the seminars (can you say oh?), so please check back at the QRP ARCI web site @ <http://www.qrparci.org/>.

Naturally, we will have the meet the authors social on Thursday night, starting at 7:00 PM.

Friday night - Club/Vendor Night - FREE!

On Friday night (and on other nights optionally), clubs and vendors will be set up in the MAIN ballroom. This is a mini-hamfest in itself. Please contact myself for signing up as a club or vendor. Since the vendor night is known for fun and food, stand by for future announcements!

We traditionally have between 15 and 20 vendors at this event. Clubs are encouraged to set up a table to promote their club, sell their "toys", and especially to carry on the tradition set by the Cheezeheads of Wisconsin - providing munchies/hor doerves/etc. Anyone desiring a table for this event which should run from 8:30 to 11 PM Friday should let me know ASAP. If you are a vendor or a club and wish to set up at a table on other nights, that's fine too. Just find a table and pitch your tent.

Saturday night - QRP Banquet - \$25

The QRP Recognition banquet will again be held on Saturday night, beginning at 7 PM. This is a full course meal and the price is \$25.00. The highlight of the banquet will be the induction of new members into the QRP ARCI Hall of Fame. You can count on this - there will be the usual "load" of door prizes. To view the list of who has signed up for the banquet, go to our Registrant List.

Contests - FREE!

FDIM 2003 will have the traditional contests for homebrew and kits. We will be posting additional information soon on these events.

Hotel:

The official motel for all QRP activities is the Ramada Inn Dayton Mall. Send email to our room coordinator, Hank Kohl, K8DD, QRP_Dayton@hotmail.com, if you want to be on the list. The rate is \$74 plus taxes (king may be extra), which is very competitive for Dayton on this weekend of the year.

Even more details!

Overview (to print out for your tracking):

Thursday - May 15, 2003:

QRP Symposium: 8:00 AM until 4:30 PM - Contribution \$15.00

We are getting some great offers for presentations, so please check back often at the QRP ARCI web site @ <http://www.qrparci.org/> for the list of presenters and topics and other up to date announcements.

Thursday Evening - May 15, 2003:

Author Social: 7:00 PM until 11:00 PM - No Charge

A chance to meet and talk with the QRP Symposium Speakers.

Friday Evening - May 16, 2003:

Vendor Social, starting at 8:30PM - No Charge

This evening is set up to allow the QRP vendors to display, demonstrate and discuss their products and latest offerings with YOU, their target audience. You get a better chance to talk to the Vendors without the other 29,000 Amateur Radio Enthusiasts! Come ready for a fun evening!

Saturday Evening - May 17, 2003:

QRP ARCI Awards Banquet - 7:00 PM to 9:00 PM - \$25.00 per ticket

The annual QRP ARCI Awards Banquet honors QRPers who have made major contributions to QRP and Amateur Radio. We will announce the winners of the various "build it contests". We will hand out fabulous quality and quantity of door prizes as well as have lots of fun!

Later Saturday Evening - May 17, 2003:

Displays PLUS the Radio Show: 9:00 PM (after the Banquet) until ??? No Charge

This provides QRPers time to socialize and view the displays of the Building and Design contest entries and winners. Plus, you can display and show off your projects and collections at the Radio Show!

For the latest on the building and design contests, please visit the QRP ARCI web site. <http://www.qrparci.org/>

Whew, can you believe the amount of activities planned? If you have been before, you know that you must come again. If you have not made it to FDI in the past, this is a "Have to Attend" type of event. You will not be disappointed. Please continue to monitor QRP-L, QRP-F and the QRP ARCI web site @ <http://www.qrparci.org/> for additional updates and details.

Please contact me at K4TJD@arrl.net if you have any questions.

73

Tom

K4TJD

Date: Wed, 29 Jan 2003 22:29:40 -0500
From: "Tom Dooley" <tdooley@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145444] Reminder! FDIM 2003 - Call for Presenters
Message-ID: <059601c2c80f\$d65737e0\$6500a8c0@tdooleyjr>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is a reminder for the upcoming deadline of January 31, 2003 for responding to the call for 2003 FDIM Presenters. Please read the call for presenters for 2003 FDIM and either consider offering to make a presentation or encourage a fellow QRPer to make a presentation.

Thanks for your attention!

Call for FDIM 2003 Presenters!

Planning is underway for the Four Days in May (FDIM) Symposium in conjunction with the 2003 Dayton Hamvention. This will be our eighth year for this "not to be missed" event. FDIM 2003 will start on Thursday, May 15, 2003. On that day, QRPers will gather in Dayton to hear from some of the best minds in QRP. The symposium is an 8-hour event, which covers the gamut of QRP.

Please consider sharing your talent and experience by giving a presentation and documenting it for the FDIM 2003 Proceedings. Topics are wide open and may include design; construction projects and techniques; antennas and feedlines; operating techniques or experiences. Be creative and define your own topic! All that is required is that you present your topic at the Thursday Symposium and document it for publishing in the FDIM 2003 Proceedings.

Time slots are limited, so please submit your idea soon. If interested, please send a short description (one paragraph) of the proposed talk to me prior to January 31, 2003. If you know of someone who might be interested in submitting an idea, please forward this call to them.

72 es 73,

Tom Dooley
K4TJD

4942 Dock Court
Norcross, GA 30092
USA
K4TJD@arrl.net

Date: Wed, 29 Jan 2003 20:29:55 -0700
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
"cq-c-1" <CQCLIST@yahooogroups.com>
Subject: [145445] UPDATED: the "Rock-Mite" files
Message-ID: <011801c2c80f\$dbdd6720\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

A few more additions to the site, an RMK Quick Ref Guide, & a new link.

73, Rod N0RC
the "Rock-Mite" files
<http://www.radioactivehams.com/~n0rc/rm/>
<http://www.qsl.net/n0rc/rm/> (Mirror Site)

Date: Wed, 29 Jan 2003 21:34:18 -0600
From: "Don Foster" <k5kw@geotec.net>
To: <qrp-1@Lehigh.EDU>
Subject: [145446] Sidekick Receiver Comes Alive (long)
Message-ID: <000501c2c810\$79068ea0\$9e8d9eac@aoldsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

All,

Today another Sidekick Receiver came alive here in Fort Gibson, Oklahoma,

and man...talk about "bang for your buck!" This is one nice little receiver. Its a fairly selective superhet circuit and is quite sensitive. The receiver's noise floor is impressive. I used an Omni Six Plus as a signal generator for the simple alignment of the Sidekick, then switched back and forth between the two for comparison of signals on the band. The Sidekick heard every signal the Omni did, and almost as well, though it does exhibit the microphonic characteristic others have mentioned and for which a solution has been reported.

Hats off to Dave Benson, K1SWL, of Small Wonder Labs for making his design available as a club project for the Fort Smith QRP Group. Kudos also to Frank Roberts, VE3FA0, for the excellent layout and manual, to Doug Hendricks, KI6DS, for putting the deal together, and to Jay, W5JAY, and his helpers for distributing the parts as a fund-raiser to stage this year's ArkieCon.

If you're thinking about ordering one of these little \$ 30 receivers, better do it right away. I contacted Jay (w5jay@alltel.net) to get a replacement for one of the capacitors that was kitted in error, and he advised that the remaining kits are going fast! There were only 300 kitted, and they're on their last batch.

If you're ordering, or have one and haven't built it yet, there are a couple of things I noted when building mine that might be of help. The assembly text omitted mention of C-107, though it is on the parts layout with no value shown. A check of the provided schematic revealed that C-107 is a .1uF monolithic capacitor (marked 104) and should be installed at U-4 from pin 5 to ground. I was wondering why I had an extra capacitor. < grin > Also note that C-106 goes to U-4 Pin 8, not Pin 7, as I think someone reported earlier. Be sure that your kit has a .0022 uF (marked 222) for C26. Some earlier kits had a .022 uF (marked 223) instead. Jay has replacements.

If you lay out the pads by eyeball only (as I did), instead of gridding the blank circuit board, you may find one or more parts difficult to install once some others are already in place. You may want to skip ahead in the text and mount a part that appears about to be enclosed by other parts. For example, I had to remove one of the crystals in the filter to be able to mount RFC1. RFC1 needed to be laid alongside Y1, Y2 and Y3. I'd also suggest holding off mounting C1 until after T1 is installed. It just depends on how you laid out the pads.

Bill, K4AHK, reported previously that Dave Benson wrote him suggesting that the microphonic problem might be C20. Bill found that changing C20 helped, but that changing it and C21 with poly film capacitors eliminated the problem. That change will be my last step before finding a suitable container to house my Sidekick. It won't quite fit in the standard size Altoids tin.

By the way, if you're looking for some great (and free) solid hookup wire for low current, low voltage QRP projects, make friends with an installer of business telephones. They throw away scrap lengths of multi-wire cable that makes great hookup wire. The wires are easily removed from the cable covering, and the small wires' insulation holds up fairly well to heat from the soldering iron. I got a lifetime supply before I retired when the local phone company was installing a new system in our remodeled office building.

Take the plunge and have fun with your Sidekick. I'm sure enjoying mine.

Don, K5KW
Fort Gibson, Oklahoma

Date: Wed, 29 Jan 2003 23:06:39 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: QRP-L <qrp-l@Lehigh.EDU>, flham@mailman.qth.net, cars@k4ksa.org,
larc@yahooogroups.com
Subject: [145447] Lots of equipment for sale
Message-ID: <3E38A4CF.229A431F@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Lots of things for sale and prices do not include shipping.

I am open to offers or trades.

2 Cushcraft 13-B2 two meter yagis.
Includes a copy of the manual.
Price: \$70 each

1 M2 two meter 2 port power divider.
Price \$45

Will sell both 13-B2's and the power divider as a package for \$170.

1 Cushcraft AR6 6m vertical antenna
Included copy of manual.
Price: \$45

1 ADI AR-147 2m mobile.

Includes original box, manual, mobile bracket and backlit mic.

Was never used mobile.

Price \$75

1 Clegg FM-76 220 mobile radio.

Crystal controlled radio included 223.500 national FM frequency plus several repeater pairs. Includes mic. I have used the radio on 223.5 and seems to work ok. The internal speaker does not function but has a speaker jack. A commercial GE external speaker will be included.

Price: \$35

1 HTX-404 UHF handheld.

Included antenna, manual, speaker mic, and AA battery pack.

Price: \$45

1 Heathkit AM-2 power/swr meter

Price: \$15

73

Paul K4FB

Date: Wed, 29 Jan 2003 20:07:52 -0800

From: "Trevor Jacobs" <kg6cyn@earthlink.net>

To: <rohre@arlut.utexas.edu>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [145448] Re: Better than water soluble flux or Kester Solder or Radio Shack solders

Message-ID: <007801c2c815\$2d94f380\$17e8b3d1@tjacobs>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Stuart and all,

When I was at HES in Austin, that was all that we used. Very good solder and I agree with Stuart 100%. I have not found an outlet for it here in CA though. I guess I could check their web site to see if they sell

direct. I've been pretty happy with the Kester 44 with 2% silver. That's pretty much become the standard solder here since I do a lot of SMD. But, would welcome some Multicore ;-)

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: Stuart Rohre <rohre@arlut.utexas.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Wednesday, January 29, 2003 5:59 PM

Subject: Better than water soluble flux or Kester Solder or Radio Shack solders

> I have been soldering for 45 plus years. I started with Kester solder, but
> about 1960 discovered the local parts house had this English made "Ersin
> Multicore Solder". Its claim to fame was that it had improved wetting and
> cleaning of the join by flux, because instead of one big glob of flux in the
> middle of the solder wire, it had 5 tiny cores of flux distributed thru the
> cross section of solder. Thus, it requires less flux to get to all parts of
> the joint to be soldered, as you have flux coming into the process from all
> the entire circumference of the solder. As a result, there is less flux
> used and less residue (to none) left, when you do it correctly.
>
> At work, we stock both Kester and Multicore, as solder is kind of like
> brands of toothpaste, personal prejudices and all that. However, the times
> I had to use Kester again, I have always and consistently been less
> satisfied with the look of the result than with Multicore, and I always go
> back to Multicore. I have used one small box of Kester in 45 years, and
> several pounds of Multicore in several of its formulations and diameters.
> It seldom needs post soldering cleaning.
> With the Savbit formula I am using now, I never clean off flux after
> soldering, and Savbit keeps the iron copper bit plating from eroding.
>

> Multicore Solders as it is now known, is made throughout the world,
and USA
> has a factory in Richardson, Tx with a web site under keyword
"Multicore
> Solders".
>
> It saves a lot of time and frustration not having to worry with water,
soap,
> brush, alcohol, heat gun, etc. after soldering a few joints or many.
> I think Multicore is the best answer for hobby soldering as well as
the R&D
> Lab needs, and I do not own any stock in the company nor know anyone
that
> works for them, but do know at one time, they gave out free samples.
>
> Try it as compared to whatever you have used before. The 5 flux cores
idea
> is a great aid to good lucking solder joints!
> 72, Stuart K5KVH
>
>

Date: Wed, 29 Jan 2003 23:23:56 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: qrp-l@lehigh.edu
Subject: [145449] Dayton Hamvention Rooms
Message-ID: <5.1.0.14.2.20030129231520.0630c8d8@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

As Tom K4TJD said in the FDIIM announcement:

Hotel:

The official motel for all QRP activities is the Ramada Inn Dayton
Mall. Send email to our room coordinator, Hank Kohl, K8DD,
QRP_Dayton@hotmail.com, if you want to be on the list. The rate is \$74 plus
taxes (king may be extra), which is very competitive for Dayton on this
weekend of the year.

Better yet Go to:

<http://www.qsl.net/k8dd/rooms/ramada1.htm>

and follow the To request a room, or check availability go here
link.

Rooms are somewhat limited this year and will be handled as they come into
qrp_dayton@hotmail.com.

73 Hank K8DD

Date: Wed, 29 Jan 2003 21:42:14 -0700
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: qrp-l@lehigh.edu, k7qo@earthlink.net
Subject: [145450] Re: High Speed CW [long]
Message-ID: <BA5DFB36.F2D%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Chuck - I recall that Nick Kennedy, WB5DOU, did this at Arkiecon 2 years ago or so.

"What some one needs to do is form a group to set up RUFZ at the QRP gatherings and let people try it out. "

You may have missed that year. RUFZ is a tough go, especially sober. -
Duffey

James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Wed, 29 Jan 2003 22:48:46 -0600
From: Tim Pettibone <k5oi@cox.net>
To: qrp-l@lehigh.edu
Subject: [145451] re:Rockmite QSO
Message-ID: <5.1.0.14.0.20030129224616.00b1bbf0@pop.central.cox.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Worked my first Rockmite (that I know of) tonight. It was Glenn, WE9F and he was booming into Stillwater, Oklahoma. I'm sitting here still "jet lagged" from my 11 day trip to Vietnam but pumped. Now I have to get that Rockmite of mine built and on the air. I thoroughly enjoyed my trip but it's good to be back in the US of A!

Tim K5OI

Date: Wed, 29 Jan 2003 20:58:23 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [145452] WWV History
Message-ID: <MABBJOEABOILMKCJCLFCCEICEAAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Found a very interesting short history of WWV at
<http://tf.nist.gov/stations/wwwvhistory.htm>
73, Bob N6WG

Date: Wed, 29 Jan 2003 23:34:23 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [145453] Re: Better than water soluble flux or Kester Solder or Radio Shack solders
Message-ID: <067d01c2c821\$3fa74d00\$454bbbd0@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Meant to send this to the group and Trevor, this is Loctite's web site.
<http://www.loctite.com/catalog>
73 de KM5CW Joe
FISTS #4217 QRPARCI #11368 NETXQRP#42
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

- _.- .-.. -.-

----- Original Message -----

From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, January 29, 2003 10:07 PM
Subject: Re: Better than water soluble flux or Kester Solder or Radio Shack solders

> Hi Stuart and all,

>
> When I was at HES in Austin, that was all that we used. Very good solder
> and I agree with Stuart 100%. I have not found an outlet for it here in
> CA though. I guess I could check their web site to see if they sell
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> But, would welcome some Multicore ;-)
>
> 73's Trev KG6CYN
> <http://home.earthlink.net/~kg6cyn>
> <http://www.qsl.net/kg6cyn>
>
> ----- Original Message -----
> From: Stuart Rohre <rohr@arlut.utexas.edu>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Wednesday, January 29, 2003 5:59 PM
> Subject: Better than water soluble flux or Kester Solder or Radio Shack
> solders
>
>
> > I have been soldering for 45 plus years. I started with Kester
> solder, but
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> > At work, we stock both Kester and Multicore, as solder is kind of like
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> diameters.

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> >
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> > Try it as compared to whatever you have used before. The 5 flux cores
> idea
> > is a great aid to good lucking solder joints!
> > 72, Stuart K5KVH
> >
> >
>

Date: Wed, 29 Jan 2003 21:47:58 -0800 (PST)
From: Jeff Furman <jfurman@ocs.net>
To: john <johnmb@nc.rr.com>, qrp-1@lehigh.edu
Subject: [145454] Re: MV-1662 varactor diode characteristics
Message-ID: <Pine.LNX.4.21.0301292006001.11560-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

John, the short answer is to just turn the diode around in your circuit, I doubt you could damage a varactor in the typical high dc impedance circuits if it's forward biased. I could guess that you might overheat or burn out one end of a tuning pot if there's no series resistor between the pot wiper and the varactor, before the diode even notices it. The forward biased diode has, say, one volt or less across it and it can probably dissipate 250 mW for a while without damage. This means it can support 250 mA (1/4 Amp) forward current for a bit, but the poor pot will be glowing at the end where this happens; the pot's rating is for the dissipation evenly distributed across the full element, not just crowded at one

end. The pot's end resistance will cook. Certainly, if there's no current limiting part of the circuit, the diode could fail because of high dissipation. The reverse bias leakage current will not be affected by an experience of forward bias. The situation where too much reverse bias voltage is applied may cause junction breakdown and potential damage to the junction. One symptom of this is substantially increased reverse biased leakage current at less than the breakdown voltage; again, there should be no deleterious effect of the accidental forward bias with limited current. One use for the data specifying the maximum reverse leakage current is designing the decoupling network used to reverse bias the diode. Typically a simple r-c lowpass decoupling filter is adequate, since the rated maximum leakage current is 10 uA, a fairly large resistor may be used with little bothersome voltage drop. Here's some summary data:

<http://www.knoxsemiconductor.com/catalog/MV1652-1666SERIES.PDF>

When I built my Norcal 40A, late in the last century, I accidentally installed the varactor diode backwards, even though I carefully examined the silkscreen outline on the pcb. Of course, I didn't notice this until I applied power and observed the tuning range was unexpectedly small. One symptom was that all the available tuning range occurred at the very bottom of the pot, where the voltage applied to the diode is very low. Measuring the voltage excursion across the diode confirmed that it was forward biased. I reversed it, but not before melting a nearby polystyrene cap with but a simple stroke of my soldering iron. Since this capacitor is part of the vfo tuned circuit, its temperature coefficient is critical to the overall temperature stability, so a same valued, arbitrary type junk box capacitor wouldn't do. A very irritating trip to the nearby surplus store soon followed.... anyway, the original varactor is still okay.

73, Jeff AD6MX

Date: Thu, 30 Jan 2003 00:27:19 -0600
From: Jim Gelbort <jamesgelbort@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [145455] Re: Bluetooth module
Message-ID: <5.1.0.14.0.20030130001708.00b33780@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Mike,

Check out these sites, but be prepared for big \$\$\$\$\$\$ price tags on

development kits-

<http://www.stonestreetone.com/products/index.html>

<http://www.blue2th.org/products/connectblue/devkit.html>

<http://www.semiconductors.philips.com/technologies/bluetooth/systems/index.html>

This white paper provides a slew of useful information on chipsets and interfacing-

<http://www.cs.hut.fi/Opinnot/Tik-86.174/BT-devkits.pdf>

Good luck,

Jim N9WW

Date: Thu, 30 Jan 2003 10:23:46 +0100
From: Ingo Meyer DK3RED <dk3red@gmx.net>
To: qrp-l@Lehigh.EDU
Subject: [145456] Re: MV-1662 varactor diode characteristics
Message-ID: <5.1.1.6.1.20030130102346.009e7ec0@pop.gmx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello John,

>I installed this Varactor diode in backwards in my Sidekick, and
>I'm wondering if I can check (as one would, a "normal" diode) it's
>health with an ohmmeter? I note that the one spec I see doesn't give much
>in the way of diode-like spec information (I do see a VERY low reverse current
>max, which makes me worry).

One of more ways to measure varactor diodes published Jeff Hecht K8GD on his homepage at www.qsl.net/k8gd (Measuring Varactor Diodes). His article was also re-published in our German QRP magazine "QRP-Report".

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>
QRP ARCI #11295 <http://www.qrparci.org>

Date: Thu, 30 Jan 2003 10:23:46 +0100
From: Ingo Meyer DK3RED <dk3red@gmx.net>
To: qrp-l@Lehigh.EDU
Cc: jacksonharbor@att.net
Subject: [145457] Funky - A key using pressure sensors
Message-ID: <5.1.1.6.1.20030130102346.009e70a0@pop.gmx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Chuck WB9KZY, Phil VE3AXL and all other QRPers,

some reader ask me for more informations about my article "Funky - A key using pressure sensors" in the last QRP Quarterly.

>... Your article indicated that you are using
>pressure switches. The article picture shows just
>contact surfaces that *look* the same as my finger
>pads.

The sensors/switches are tin foils/films with pins. You can see the switch as white surface on the silver (alumnium) underground. The white color is the double-side tape with the translucent sensor on it.

>Some of the builders in the club are interested. Are
>they real pressure switches and where can they be
>obtained?

The switches/sensors manufactured by "iee international electronics & engineering" (no more infos) and sells here in Germany by Conrad Elektronik (a German shopkeeper like Radio Shack) <http://www.conrad.de> . After a search on the web pages of Conrad Elektronik I found a data sheet (715KB) at

http://www.produktinfo.conrad.com/datenblaetter/175000-199999/182583-da-01-de-drucksensor_fsr-151.pdf

Please paste the two lines together for the right URL. It's in German, but you can catch more informations/pictures. The correct name of the sensors/switches is "Force Sensing Resistors" and I used the type FSR-151. The sensor I used was only about 15 mm x 52 mm x 0.43 mm "large". There are bigger and smaller ones.

Larry East W1HUE who had edited my article to "americanize" my bad English (TNX AGN) wrote me that he also can't find a source for the sensors by Mouser.

>... What did you pay for these
>pressure switches? ...

About 5 Euro. ;o((Exact 5.09 Euro.

>I am going to try and make a membrane switch with
>brass shim stock cut into pads and glued to plastic/
>rubber sheeting. I will set the gap or travel or
>pressure by increasing the spacing between two metal
>sheets with various layers of plastic.
>Maybe I can explain better.
>*One layer of metal or maybe copper circuit board.
>*3-4 layers of plastic sheeting with a hole cut out
>* the top layer will sit so that the brass cut outs
> will fit over the holes in the insulating layers.
> The brass cutouts will be glued to the underside of
> the top layer. When you press on the top layer the
> brass part makes the contact with the circuit board.
>I have tried this and it works and you can set the
>pressure by increasing the insulating layers. You also
>don't need any transistors or power source. It is also
>sealed from dirt and damage.

Sounds very good! Please see in the data sheet (page 2). I think you way is the right one. The original sensor/switch uses also these parts. The first level is a "ground" with a polymer on the inner surface. The second one is the spacer you also uses. And the third is a plastic foil with two metal electrodes on the inner surface. I think it is the same to push two electrodes in a polymer or to push two electrodes together. Yes, the polymer variation is smoother (not only on/off) but with your variation it is also possible to change the necessary pressure (and save a lot of money).

>... Are these
>sensors also known as strain gages ?

Maybe. I don't know this ones. The sensors I used are not the expensive precise ones. You can measure a resistance change but not measure "exact on a gramm". I think the "brother" of the used sensors are the switcher (without switchpoint) in flat foil keyboards.

Hope it helps a bit. If you need more informations ask me again.

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de	http://www.t-online.de/~dk3red
DL-QRP-AG #824	http://www.dl-qrp-ag.de
QRP ARCI #11295	http://www.qrparci.org

Date: Thu, 30 Jan 2003 05:23:51 -0500
From: "John Huffman" <hjohnc@core.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145458] February Spartan Sprint Announcement
Message-ID: <011d01c2c84a\$45898250\$2f3d5dd8@jhuffmanlt>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-- Spartan Sprint Contest Monday --

Authorities have confirmed that the sure cure for cabin fever is the February Spartan Sprint! The February Spartan Sprint will be held on February 3, 2003 (which is our standard date--the first Monday of the month). It's two hours of fun as you contact other QRP CW stations on 80, 40, 20, 15, 0r 10 meters. The contest starts at 9 pm Eastern, 8 pm Central, 7 pm Mountain, 6 pm Pacific. The exchange is RST - State - Power (e.g. 559 MI 5W). Contest details and rules are below.

NOTE - The deadline for logs is noon on Wednesday, Pacific Time.

-- Logging Programs --

Keep track of your Spartan Sprint contacts with our free contest logging program. Download the latest version at:
http://www.natworld.com/ars/pages/spartan_sprints/ss_logger.html

Steve, N90H, has written a plug-in for WriteLog to add ARS Spartan Sprint support that can be downloaded from Steve's website: <http://wlmods.n9oh.com>

-- Contest Rule Summary --

You may operate on any one or more of five bands--80, 40, 20, 15, and 10 meters. Don't worry if your station is a bit heavy and not quite trail-ready. We commend the winners in two categories--overall points (the Tubby Division), and points per pound (the Skinny Division).

1. In the Eastern time zone, start at 9PM and end at 11PM, local time. In the Central time zone, start at 8PM and end at 10PM, local time. In the Mountain time zone, start at 7PM and end at 9PM, local time. In the Pacific time zone, start at 6PM and end at 8PM, local time. (When the U.S. is observing Standard Time, this slot is 0200 to 0400 UTC. When the U.S. is observing Daylight Time, this slot is 0100 to 0300 UTC.)

2. The frequencies will be 3560+- kHz, 7040 kHz+-, 14060 kHz+-, 21060 kHz+-, and 28060 kHz+- . (You may operate any number of bands--your choice.)

3. Exchange RST, SPC (state, province or country) and power output.

4. If you choose to call CQ, use the format "CQ SP," or "CQ QRP TEST."

5. You can take credit for working the same station on a second, third, or fourth band.

After the contest, we invite you to use our autolog, which is part of the ARS Sojourner. Just go to www.natworld.com/ars and follow the link for "Direct access to autologs". Or you can speed things up by going directly to the Spartan Sprint autolog page at www.natworld.com/ars/ss_log.html

"Station Weight" is defined as the combined weight of all transmitters, receivers, keys, keyers and batteries used during the Sprint. We use decimal pounds, rather than pounds and ounces. You may report your weight to the nearest 10th of a pound, or, at your option, the nearest 100th of a pound. For stations weighing less than one pound, we recommend the nearest 100th of a pound.

If you don't have access to the web, send John Huffman, NA8M, an email with your total QSOs and the total weight of your station. You may also include your comments from the soapbox. John's email address is hjohnc@core.com

We publish results for each Spartan Sprint on the Thursday following the Sprint. This may be the world's quickest contest reporting! Please send us your log as soon as possible, but in no event later than Wednesday at noon.

73 de NA8M
John
Contest Manager
Adventure Radio Society

Date: Thu, 30 Jan 2003 05:53:27 -0500
From: "Kochenderfer, Mike (M.)" <mkochend@ford.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [145459] troubleshooting the cub
Message-ID: <83E1CD0332D1D41180BD0002B3153E5D0BCA97@na1ecm12.dearborn.ford.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Having some trouble with a 15 meter Cub I've just completed. It doesn't seem to be able to receive at all. I was wondering what the correct procedure is to troubleshoot the receive section of this little rig. My test equipment includes, an O'scope, digital vom, fuction generator, and a little pen-like "signal injector". Any help on this would be greatly appreciated. Thanks.

Mike Kochenderfer AB8CQ

mkochend@ford.com

Date: Thu, 30 Jan 2003 06:05:31 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [145460] Re: SMT work
Message-ID: <009801c2c84f\$84886ca0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I remembered to check...

The solder I'm using at the bench now is Kester '44' in a diameter of 0.015" Not the thinnest stuff I've ever used, but it's down there.

I like it for surface mount because when I'm mounting chips, I have to actually 'feed' it to the joint. If I don't feed, it won't put enough down
to 'ball up' on the joint.

I have a small piece of solder I took off another roll, but I don't have the
actual roll. It was used on the repair bench for calculators and other really fine stuff. Looking at it under the lens, it appears to be maybe less
than than 1/3 the diameter of the stuff I'm using now.

I wonder, how small does solder go?

Mike

Date: Thu, 30 Jan 2003 11:08:06 -0000
From: t.wells@blueyonder.co.uk
To: <rohre@arlut.utexas.edu>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [145461] Re: Better than water soluble flux or Kester Solder or Radio Shack solders
Message-ID: <013801c2c850\$f8c51680\$0d02a8c0@BART>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Stuart wrote:

> about 1960 discovered the local parts house had this English made "Ersin
> Multicore Solder". Its claim to fame was that it had improved wetting and

I've been watching ths soldering thread and similar issues on other lists, and admit to being a bit mystified with the need for discussion. Stuart seems to have highlighted why. In the UK we've all been using 5 core for many years, and Ersin has been a well known name since the 1960's, possibly before. I remember when watching my father build a subminiature tube radio in the 60's. I can picture now the Ersin solder dispenser and remember the magnified view of a section of solder showing the 5 cores of flux. That was about the closest my dad would let me get to the radio!

Regards,

Tony
M3CJF
G7IGG

Date: Thu, 30 Jan 2003 08:57:15 -0500
From: Chuck Ludinsky <cjl@mitre.org>
To: neqrp@jonal.net, qrp-1@lehigh.edu
Subject: [145462] NEQRP CW Net, Thursday, 30 Jan 03, 08:30 PM EST, 3.565 MHz
Message-ID: <3E392F3B.795AF741@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The New England QRP Club's 80M CW net, WQ1RP, will meet again on Thursday, 30 January 2003, at 8:30 PM EST (01:30Z, 31 Jan 03) on or near 3.565 MHz. All hams are welcome. Net control operator will be Chuck, K1CL, operating from Chelmsford, MA.

With excellent conditions, last week's net had a total of ten participants:

N1VS	Vince	Winsted, CT	599
W1FMR	Jim	Salem, NH	599
WA8BXN	Mike	nr Cleveland, OH	589
K1RC	John	Dracut, MA	599
N1CUU	Carl	nr Gettysburg, PA	589
K1YPP	Dennis	Hampstead, NH	599
WB1HBE	John	Chelmsford, MA	599

N1ZSW	Ron	Worcester, MA	589
AB1CW	Ed	Tyngsboro, MA	599
K1CL	Chuck	Chelmsford, MA	net op

Thanks to everyone for QNI'ing. Hope to hear you all again this week.

72 DE K1CL,
Chuck

Date: Thu, 30 Jan 2003 09:15:17 -0500
From: "Ken Newman" <N2CQ@Dandy.Net>
To: "W3BG" <W3BG@arrl.net>, "Norm Into" <normk8ni@neo.rr.com>,
"N4SO" <N4SO@Juno.com>, "List Elecraft" <Elecraft@mailman.qth.net>,
Subject: [145463] [CONTEST] N2CQ QRP Contest Calendar - Feb 2003
Message-ID: <046a01c2c86a\$0b64f710\$a89efa42@D910G521>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

~~~~~  
N2CQ QRP CONTEST CALENDAR  
February 2003  
~~~~~

40 METER FOXHUNTS
Fox Hunt - Thursdays - 9pm EST, 8PM CST, 7PM MST and 6PM PST.
Info: <http://www.cqc.org/fox>
Truffle Hunt - Thursdays - 30 min before Fox Hunt
Info: http://fpqrp.com/pig_hunt.html
~~~~~

New Hampshire QSO Party (All) ... QRP Category  
Feb 1 - 0000z to Feb 2 - 2400z  
Rules: <http://www.nhradio.org/NH-QSO/index.html>  
~~~~~

Vermont QSO Party (All)
Feb 1 - 0000z to Feb 2 - 2400z
Rules: <http://www.ranv.org/vtqso.html>
~~~~~

10-10 Int. Winter QSO Party (SSB - Ten Meters) ... QRP Category  
Feb 1 - 0001z to Feb 2 - 2400z  
Rules: <http://www.ten-ten.org/>  
~~~~~

Minnesota QSO Party (All) ... QRP Category

Feb 1 - 1400z to 2400z
Rules: <http://www.w0aa.org/>

~~~~~  
AGCW Straight Key QSO Party (CW 80M) ... QRP Category  
Feb 1 - 1600z to 1900z  
Rules: <http://www.agcw.de/>

~~~~~  
Delaware QSO Party (All)
Feb 1 - 1700z to Feb 2 - 0500z
Feb 2 - 1300z to Feb 3 - 0100z
Rules: <http://www.fsarc.org>

~~~~~  
North American Sprint (Phone) ... QRP Category  
Feb 2 - 0000z to 0400z  
Rules: <http://www.ncjweb.com/sprintrules.php>

~~~~~  
Adventure Radio Society - Spartan Sprint (CW) ... QRP Contest!
Feb 4 - 0200z to 0400z (Monday Evening US/Canada)
Rules: http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html

~~~~~  
FISTS Winter Sprint (CW of course) ... QRP Category  
Feb 8 - 1700z to 2100z  
Rules: <http://www.fists.org/sprints.html>

~~~~~  
North American Sprint (CW) ... QRP Category
Feb 9 - 0000z to 0400z
Rules: <http://www.ncjweb.com/sprintrules.php>

~~~~~  
QRP ARCI Fireside Sprint (SSB) ... QRP Contest!  
Feb 9 - 2000z to 2400z  
Rules: <http://personal.palouse.net/rfoltz/arci/firesid.htm>

~~~~~  
ARRL International DX Contest (CW) ... QRP Category
Feb 15 - 0000z to Feb 16 - 2400z
Rules: <http://www.arrl.org/contests/rules/2003/intldx.html>

~~~~~  
CQ WW 160-Meter DX Contest (SSB) ... QRP Category  
Feb 22 - 0000z to Feb 23 - 2359z  
Rules: <http://www.cq-amateur-radio.com/infoc.html>

~~~~~  
UBA DX Contest - Belgium (CW) ... QRP Category
Feb 22 - 1300z to Feb 23 - 1300z
Rules: <http://www.uba.be>

~~~~~  
FBYO Winter QRP Field Day (CW/SSB) ... QRP Contest!  
Feb 22 - 1600z to 2400z  
Rules: <http://www.extremezone.com/~nk7m/fybo2003.htm>

High Speed CW Club Contest ... QRP Category  
Feb 23 - 0900z to 1100z  
Feb 23 - 1500z to 1700z  
Rules: <http://www.morsecode.dutch.nl/hscindex.html>

~~~~~  
North Carolina QSO Party (CW/SSB)
Feb 23 - 1700z to Feb 24 - 0300z
Rules: <http://www.w4nc.com>

~~~~~  
Colorado QRP Club Winter QSO Party (CW/SSB) ... QRP Contest!  
Feb 23 - 2200 Local to Feb 24 - 0359 Local  
Rules: <http://www.cqc.org/contests>

~~~~~  
Please send your sprint or contest info to: N2CQ@ARRL.NET
We will include it in the calendar.
Thanks to WA7BNM, SM3CER, N0AX/ARRL and others for assistance in
compiling this calendar.

Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.
(Include a credit to the source of this material of course.)

72 de
Ken Newman - N2CQ
N2CQ@ARRL.NET

**** N2CQ QRP Contest Calendar ****
<http://www.njqrp.org/data/contesting.html>
<http://www.n3epa.org/Pages/Contest/contest.htm>
<http://www.qsl.net/cqrp/contests.html>

Date: Thu, 30 Jan 2003 10:47:21 -0500
From: "Hugo W. Catta" <hugo@optonline.net>
To: wa3ptg@comcast.net,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145464] Re: HB - tube receiver
Message-ID: <002101c2c876\$e12f6130\$0200a8c0@hugocatt>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

You "can" (no pun intended ;-)) if you use tube type I.F. transformers.
The tansistors type "cans", "can't" do the job due to major differences in
I/O impedances.
I have a bunch of (some matched) 8Mhz Xtals, and was also thinking on

building a tube type receiver with 10.7 cans padded down to 8Mhz.
Opinions, ideas, brainstorming are most welcome.

72, 73

Hugo
AA1XV

----- Original Message -----

From: "Harry Hurst" <wa3ptg@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, January 29, 2003 1:41 PM
Subject: HB - tube receiver

> Has anyone designed/built a tube receiver using a computer-crystal filter
> and 10.7 MHz IF cans as is common with solid state rigs? I can't think of
> a
> reason a design like that wouldn't work except possibly because it's not a
> traditional design.

>

>

> 72

> Hap, WA3PTG
> Wilmington DE

>

> Back on the evening shift with entirely
> too much time on my hands.

>

>

Date: Thu, 30 Jan 2003 11:00:11 -0500
From: "Joe W2KJ" <w2kj@bellsouth.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [145465] Who is TI5???
Message-ID: <002d01c2c878\$abc46200\$220110ac@gateway.2wire.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy Gang:

I want to thank all those that responded to my query. The TI5
statio is apparently a fellow on vacation in Costa Rica and

not some exotic DX station.

>From the pileups I have heard on this fellow DX must getting hard to find:-)

Again, many thanks to all.

73, Joe W2KJ
North Carolina
I QRP, therefore I

am

Date: Thu, 30 Jan 2003 11:07:28 -0500
From: "Joe W2KJ" <w2kj@bellsouth.net>
To: <mkochend@ford.com>
Cc: "qrp-1" <qrp-1@lehigh.edu>
Subject: [145466] Re: troubleshooting the cub
Message-ID: <003401c2c879\$b06c97e0\$220110ac@gateway.2wire.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Kochenderfer, Mike (M.)" <mkochend@ford.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, January 30, 2003 5:53 AM
Subject: troubleshooting the cub

> Having some trouble with a 15 meter Cub I've just completed. It doesn't seem to be able to receive at all. I was wondering what the correct procedure is to troubleshoot the receive section of this little rig. My test equipment includes, an O'scope, digital vom, fuction generator, and a little pen-like "signal injector". Any help on this would be greatly appreciated. Thanks.
> Mike Kochenderfer AB8CQ

Howdy Mike:

I would start using your function generator (1khz) and scope at the rear end of your radio...the audio output stage.

— — • — • — • • • • — •

Date: Thu, 30 Jan 2003 11:55:51 -0500
From: Alex <kr1st@amsat.org>
To: N2CQ@Dandy.Net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145468] Re: [CONTEST] N2CQ QRP Contest Calendar - Feb 2003
Message-ID: <3E395917.FB6C797B@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

Last year I made 3 comments on this list regarding the Dutch PACC contest, and they changed things in all respects:

[2002] "I just read the contest rules and it states that there's a QRP category for Dutch stations, but not for foreign stations."

Present: They added the QRP (5 Watt max.) category for foreign stations!

[2002] "in order to get a ribbon, a Dutch station has to contact 100 stations which can be foreign or domestic, but a foreign station has to contact 100 Dutch stations. Last year [2001] there were about 400 Dutch stations participating, so this is going to be quite challenging."

Present: Their website states that "all foreign contestants will receive a memorable souvenir"

[2002] "their site is not updated"

Present: They have a new website: <http://www.dutchpacc.com/>

The Dutch PACC contest will be from Saturday, February 8th 12:00 GMT until Sunday, February 9th 12:00 GMT. So if you can, please participate in this friendly contest, even if it's just for a few contacts and make sure to send in your log.

Please visit their website for the complete set of rules and other information.

73,
--Alex KR1ST

Ken Newman wrote:

>

> ~~~~~

> N2CQ QRP CONTEST CALENDAR

> February 2003

Date: Thu, 30 Jan 2003 11:20:56 -0600

From: KD5NWA <KD5NWA@cbayona.com>

To: <n4lgh@waveguide.us>, Qrp-l@lehigh.edu

Subject: [145469] RE: Digital pots for audio filters?

Message-ID: <5.2.0.9.0.20030130110455.00a7a628@pop.cbayona.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Here is a URL for a site to get you thinking, he has schematics and software you can download, his filter implementation sounds very good, clean no ringing.

<<http://www.users.bigpond.com/gzimmer/default.html>>

Another site just for fun, Leon is a pretty nice guy, he can answer some technical questions.

<http://www.geocities.com/leon_heller/>

Another site, general info on DSP's

<<http://www.tapr.org/tapr/html/dspf.html>>

I have one more URL, but I don't have it with me, it's a complete book on DSP and how it works, I'll post it later.

I'm posting it to QRP-l just in case some folks might be interested.

At 10:38 AM 1/30/2003, you wrote:

>How is the coding for it tho?

>

>It's been years since I wrote anything at all. I've gotten back into it lately with VB, VC, and a few other toys for the old DOS stuff. (Pacific C)

>

>Lately I've decided to learn HC08 microcontrollers. I'm just getting a grasp of programming them, but this ASM and the type of 'C' they use for hardware programming is really bizarre to me.

>
>I figured I'd get a grip on the Nitron processor, a simple HC908 part. Then
>move into something real.
>
>Got any suggestions for the easiest DSP tutorial for this kind of stuff?
>Tracy N4LGH
>
>-----Original Message-----
>From: KD5NWA [mailto:KD5NWA@cbayona.com]
>Sent: Wednesday, January 29, 2003 7:55 PM
>To: n4lgh@waveguide.us
>Subject: Re: Digital pots for audio filters?
>
>These days it takes fewer components to make a digital filter with a DSP
>chip and then you can tailor the filter to anything you want. Take a look
>at the Alexis chip set, very cheap, very high performance filters can be
>made with it.
>
>
>At 06:44 PM 1/29/2003, you wrote:
> >In the op-amp R/C audio filters, isn't the center frequency controlled by
> >the capacitors, and the bandwidth set by the resistors?
> >
> >If so, wouldn't a digital pot with good noise characteristics work well?
> >Would these be good enough?
> >http://www.xicor.com/pdf_files/an144.pdf
> >
> >Just curious ... seems like a neat way to make a variable bandwidth audio
> >filter ... anyone on here done this?
> >Tracy N4LGH
>
>Cecil
>KD5NWA

Cecil
KD5NWA

Date: Thu, 30 Jan 2003 11:34:29 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: <n4lgh@waveguide.us>, Qrp-1@lehigh.edu
Subject: [145470] RE: Digital pots for audio filters?
Message-ID: <5.2.0.9.0.20030130113245.00a7e720@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I found it, it a book you can download on DSP's.

<<http://www.dspguide.com/pdfbook.htm>>

At 10:38 AM 1/30/2003, N4LGH wrote:

>How is the coding for it tho?

>

>It's been years since I wrote anything at all. I've gotten back into it lately with VB, VC, and a few other toys for the old DOS stuff. (Pacific C)

>

>Lately I've decided to learn HC08 microcontrollers. I'm just getting a grasp of programming them, but this ASM and the type of 'C' they use for hardware programming is really bizarre to me.

>

>I figured I'd get a grip on the Nitron processor, a simple HC908 part. Then move into something real.

>

>Got any suggestions for the easiest DSP tutorial for this kind of stuff?

>Tracy N4LGH

>

>-----Original Message-----

>From: KD5NWA [mailto:KD5NWA@cbayona.com]

>Sent: Wednesday, January 29, 2003 7:55 PM

>To: n4lgh@waveguide.us

>Subject: Re: Digital pots for audio filters?

>

>These days it takes fewer components to make a digital filter with a DSP chip and then you can tailor the filter to anything you want. Take a look at the Alexis chip set, very cheap, very high performance filters can be made with it.

>

>

>At 06:44 PM 1/29/2003, you wrote:

> >In the op-amp R/C audio filters, isn't the center frequency controlled by the capacitors, and the bandwidth set by the resistors?

> >

> >If so, wouldn't a digital pot with good noise characteristics work well?

> >Would these be good enough?

> >http://www.xicor.com/pdf_files/an144.pdf

> >

> >Just curious ... seems like a neat way to make a variable bandwidth audio filter ... anyone on here done this?

> >Tracy N4LGH

>

>Cecil

>KD5NWA

Cecil

KD5NWA

Date: Thu, 30 Jan 2003 12:47:35 -0500
From: palmer_t <ThomasPalmer@colliergov.net>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [145471] Re: FOX: AC7A Final Log 1-23-03
Message-ID: <F833DC5C03BCB34EBE579DC8DC130447815F31@CWW1.bcc.colliergov.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Tom, Thanks!

You are a credit to the brotherhood of the FOX.

Outstanding in all respects.

Your pelt total is remarkable considering the band conditions that prevailed during your hunt.

It's doubtful anyone predicted such a high pelt total.

The QRP-L group is fortunate to have FOXES such as you.

Skillful FOXes are essential to having good hunts.

Tom, N1TP
Naples, Florida

Date: Thu, 30 Jan 2003 12:55:41 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@lehigh.edu
Subject: [145472] Fox Conditions Bleak ;-)
Message-ID: <3E39671D.000033.34303@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

Well, see K Index is to be >5, another Stratwarm Alert, and assorted other disastrous doings. Everyone may as well watch CSI tonight ;-)

Having worked a Fox with the old HT18/S53, QRP+, Argo509, as well as the

Argo V and the K2, I decided a REAL challenge tonight. I am going to try my best to work the foxii with...my FT-817! I realize this puts me at a great disadvantage, so please listen up and don't be surprised if I need fills.

+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Thu, 30 Jan 2003 13:02:16 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145473] Placing of source in EZNEC
Message-ID: <3E3968A8.4A6480F2@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

When I model my random wire in EZNEC I include the counterpoise and put a Split Current source where the wires meet. Is this correct or should I put only a single current source on the random wire?

Thanks and 73,
--Alex KR1ST

Date: Thu, 30 Jan 2003 12:59:40 -0500
From: palmer_t <ThomasPalmer@colliergov.net>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [145474] Re: Who is TI5/KI7VR???
Message-ID: <F833DC5C03BCB34EBE579DC8DC130447815F32@CWW1.bcc.colliergov.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

For an excellent listing of prefixes see:

AC6V's Mega Prefix List

Tom, N1TP
Naples, Florida

Date: Thu, 30 Jan 2003 13:09:57 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <km5cw@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145475] Re: SMT discussion
Message-ID: <006501c2c88a\$cf61680\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Several folks have mentioned SMT helps along with solders,
> I found this link on another of the reflectors I am in and
> thought I'd pass it along as it is a possible low-cost solution.
> If anyone here's used it, I'd love to hear their experiences
> on how it worked/works.
>
> <http://www.usbmicro.com/apps.html>
>
> 73 de KM5CW Joe

I don't really care if other people say it works or not! It's such a neat idea I'm going to build one and see for myself! I'm using a big 'air gun' not to take off 100 pin chips. But it's incredible overkill and a PITA to use for FETs and stuff like caps and resistors. If this thing works at all, it might be better!

Mike

Date: Thu, 30 Jan 2003 13:17:44 -0500
From: k1nun@netscape.net
To: qrp-l@lehigh.edu
Subject: [145476] Shortest QRPP 40m CW confirmed QSO
Message-ID: <41EB96C2.5F60E684.00012A9D@netscape.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit

OK, I have to be the first to claim this title of shortest distance for a QRPP QSO!

Last week, I visited KM1CC, the Marconi 100th Transatlantic QSO Anniversary site on Cape Cod (Massachusetts). You can read about the event at <http://>

personal.tmlp.com/k1vv/w1aa/w1aa_1001.htm.

I found the 40m CW station politely perched on 7039 kHz, and the op was busily, but slowly, working stations one by one. I stood by his side and did not gain his attention. I leaned over to hear the CW from the speaker and he did not notice me. He did not notice me reaching into my parka pocket as I took out my Rock-Mite in Altoids transceiver, hooked up a dummy load, suspended a 12 inch clip lead from the load (to be sure I got a little radiation), attached another Altoids box with 9v battery, small speaker, and SDST button for a key. As the op called CQ, he did not hear the signal coming from the speaker I held about 9 inches from his ear.

I pumped away at the button on the box and answered his CQ. He heard me! A distance of about 17 inches. I was running about 200 mw, maybe, into a dummy load with clip lead. I saw the S-meter; I was about S-6. We exchanged operator info and I gave my QTH as: Next to you .

He looked over his pad of paper, reread his notes, and looked around, startled. Then he saw me and the rig in my hand! From here on, we shook hands, showed off the Rock-Mite, met the other ops, and had a real field day. And I am in the log for the contact.

So, I hereby claim rites as first claimant for shortest distance, confirmed QRPp QSO. Or at least for 40 meter CW mobile!

72,
ERIC
K1NUN

The NEW Netscape 7.0 browser is now available. Upgrade now! <http://channels.netscape.com/ns/browsers/download.jsp>

Get your own FREE, personal Netscape Mail account today at <http://webmail.netscape.com/>

Date: Thu, 30 Jan 2003 12:25:53 -0600
From: George Fremin III - K5TR <geoiii@kkn.net>
To: pschweit <pschweit@mninter.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145477] Re: Fw: dxpedition
Message-ID: <20030130122553.F2488@kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sat, Jan 25, 2003 at 08:02:42AM -0600, pschweit wrote:

> does anybody have any ideas on dxpeditions qrp or otherwise to the
> following?

>

> how difficult would it be to successfully mount an expedition to any ?

> > to:

> > kp5

> > kp1

Getting a permit to land on KP1 and KP5 has so far proven impossible.

> > kh5k

This was done recently - it is a coral reef in the pacific - you will need a boat to get there. You will need all life support etc. Any uninhabited island presents the same sort of problems and adds several additional layers of complexity to a dxpedtion.

The good thing about KH5K is that it is warm - ie. you do not run the risk of freezing to death or dying from hypothermia if you fall in the water.

> > kh3

There is a group there now. As I recall getting permission to go there might be much like KG4.

> > kh8

Easy to get to. Very pretty place. Has hotels etc. Very close to 5W - go to both places. Very few tourists - at least when I was there in 1986.

KH8 photo:

<http://www.kkn.net/~k5tr/photo/pcd2818/american-samoa-hotel-60.3.jpg>

5W photos:

<http://www.kkn.net/~k5tr/photo/pcd2818/western-samoa-northeast-41.3.jpg>

<http://www.kkn.net/~k5tr/photo/pcd2818/western-samoa-long-boats-59.3.jpg>

<http://www.kkn.net/~k5tr/photo/pcd2818/western-samoa-apia-hotel-47.3.jpg>

> > kg4

Was easy to get to - I am not sure how that has changed since Sept 2001. I know someone who went in 2001 - as I recall you need a "sponsor" at Gitmo to invite you. There are some guys down there this week on the radio.

> > kh0

Easy. Big Japanese vacation spot.

--

George Fremin III - K5TR
geoiii@kkn.net
<http://www.kkn.net/~k5tr>

Date: Thu, 30 Jan 2003 13:38:54 -0500
From: "Fuller, David J" <David.Fuller@qwest.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145478] rufz
Message-ID: <B3589388E2ACD411800400508B95245807F843E5@wehntex002.qwest.net>
MIME-Version: 1.0
Content-Type: text/plain

I'm trying rufz ver 3.1 on several old laptops that have win95 on them. boot to dos via shutdown and I still get the speed alarm every time.

I also tried booting to floppy with same results any ideas?

-Dave

Date: Thu, 30 Jan 2003 14:07:33 -0500
From: Alex <kr1st@amsat.org>
To: k1nun@netscape.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145479] Re: Shortest QRPP 40m CW confirmed QSO
Message-ID: <3E3977F5.16CE5452@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

k1nun@netscape.net wrote:

> OK, I have to be the first to claim this title of shortest distance for a QRPP
QSO!

That story is just too funny!

> A distance of about 17 inches. I was running about 200 mw,

17"/0.2W = 85 inches per Watt

1 mile = 63360 inches

So you got about 85/63360 or about 0.001342 miles per watt. That's like
a 100 Watt transmitter at 700 feet from the receiver or a 1000 Watt TX
at 13.5 miles. Indeed, there ought to be an award for that. :)

Thanks for sharing the story, Eric!

73,

--Alex KR1ST

Date: Thu, 30 Jan 2003 21:00:12 +0300
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: <w0jrm@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145480] Re: QRP Nets
Message-ID: <004d01c2c892\$d8d95f60\$ece422c3@user.lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>I'm putting together a list of QRP nets at my website. Please let me know
>of any nets you know of so I can include them on the list. CW, PSK-31,
SSB,
>whatever.

Dear OM Rob!

It's a very interesting idea! Two strings for your Net's List:

- RU-QRP Club Net Fridays 17.00 UTC 7030 kHz CW
- World QRP Net/Roundtable - Saturdays 10.00 and 22.00 UTC 14060 kHz CW

72! de RV3GM/QRP Oleg V. Borodin
RU-QRP Club's Chairman
Club's Web <http://www.qsl.net/rv3gm>

RU-QRP#1, QRP-ARCI#10742, G-QRP#4690, QRPp-I#2, Hi-QRP#411, AGCW-DL, DIG,
CWP etc...etc...

Date: Thu, 30 Jan 2003 14:36:00 -0500
From: "Craig A. Ferris" <cferris@aeronix.com>
To: qrp-l@Lehigh.EDU
Subject: [145481] FS
Message-ID: <3E397EA0.F0062FCE@aeronix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

TS-140S \$350
TS-130v w/cw filter \$250\$200 w/o filter
vfo-120 remote vfo \$50 needs cable

Add shipping on all items
E-mail for pictures and details.

72,
Craig NR4E
Melbourne, FL

Date: Thu, 30 Jan 2003 19:42:36 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [145482] Re: Better than water soluble flux or Kester Solder or Radio Shack solders
Message-ID: <F26xaQ6shalxyPyF1Bc00000b21@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Hi Stuart and all,

>When I was at HES in Austin, that was all that we used. Very good solder
>and I agree with Stuart 100%. I have not found an outlet for it here in
>CA though.

>73's Trev KG6CYN

Was just perusing the MCM Electronics catalog whilst in the "reading room"
and see that they carry this stuff (Multicore solder).

Their web site is:

www.mcmelectronics.com

Brad

Help STOP SPAM with the new MSN 8 and get 2 months FREE★
<http://join.msn.com/?page=features/junkmail>

Date: Thu, 30 Jan 2003 11:57:21 -0700 (MST)
From: ac7a@earthlink.net
To: k1nun@netscape.net
Cc: qrp-l@lehigh.edu
Subject: [145483] Re: Shortest QRPp 40m CW confirmed QSO
Message-ID: <3103907.1043956642312.JavaMail.nobody@statler.psp.pas.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Eric,

You have mine beat. A few years back, I attended an ARRL SW convention in
Riverside, CA. The convention had a special events station operating from the
hotel with the call W1AW/6. It happened that my room was almost directly across
the hall from the set up.

I had brought my HW-8 along and dropped a wire out the window. My friend was
operating one of the CW stations, so I called him from the room and worked him.
When we finished the QSO, I ran across the hall and took over his position at the
key. He then ran back to my room and worked me operating as W1AW/6.

The distance was proably 30 feet or so; so, indeed you have this beat. However,

there are probably many VHF/UHF, HT-to-HT QSO's, at a distance comparable to yours.

Regards, Thomas - AC7A (Tucson)

Date: Thu, 30 Jan 2003 16:51:38 -0500
From: Ed Lawson <k1vp@grizzly.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145484] QSO Parties and QRP
Message-ID: <3E399E6A.1050906@grizzly.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Do many on the list participate in State QSO Parties running QRP and, if so, do you spend time on SSB as well as CW? Seems like they would be decent operating events for low key contesting and QRP even on SSB should work OK. Think about this as my state's QSO Party is this weekend.

TIA

Ed Lawson
K1VP

Date: Thu, 30 Jan 2003 16:35:50 -0800
From: "Dave Benson" <nn1g@earthlink.net>
To: <kr1st@amsat.org>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145485] Re: Shortest QRPP 40m CW confirmed QSO
Message-ID: <001501c2c8c0\$b5965700\$8850d03f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Alex-

>>So you got about 85/63360 or about 0.001342 miles per watt. That's like a 100 Watt transmitter at 700 feet from the receiver or a 1000 Watt TX at 13.5 miles. Indeed, there ought to be an award for that. :)<<

Doesn't ARCI offer a kW/M award? <g>

73- Dave, K1SWL

Date: Thu, 30 Jan 2003 18:25:51 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: Dave Benson <nn1g@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145486] Longest QRPp QSO?
Message-ID: <Pine.LNX.4.44.0301301816200.11406-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've been watching this with great interest...

The Voyager 2 craft is now beyond Neptune - in particular, it's 6.423 billion miles from earth.

On board is a transmitter emitting 25 watts, which while not technically QRP, is pretty QRP-ish when its signals reach earth.

$6,423,000,000 \text{ mi} / 25 \text{ w} = 256,920,000 \text{ miles/watt}.$

The ground-based transmitter (Deep Space Network) puts out considerably more power, but then again it's not 6+ billion miles from the Sun - and it's much warmer here on earth.

Scott N7JI

--

Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

End of QRP-L Digest 2816

